

## METHOD FOR DETERMINING A SYSTEM OPERATING STATE

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### Abstract

Provided is a method and an apparatus for detecting an operating state or a change in an operating state in a system in which at least one analog signal indicating the operating state is present. The method includes sampling of the analog signal or of a signal dependent on the analog signal for the purpose of  
10 providing a sampling signal. The method also includes generation of a transformation signal representing a spectral distribution from a number of signal values of the sampling signal, and comparison of the transformation signal with at least one reference signal representing a spectral distribution.